



*Factory Entrance*

*Workshop*

JinWei Industry Co.,Limited (Simply : JW Mold) is located in DongGuan city , GuangDong Province, the south of China. 12 years experienced in plastic mold Making ,molding production ,worldwide delivery and after sale Services. Serving industries include automotive, home appliance, Electronics and industrial products.

JW team can Provide customer full support from free Estimation and analysis, fabrication to project complete. Reply emails in 24 hours Maximum. JW Mold is Capable to build over 110 tools a year from small Electronic product tool to big complex Automotive part , Currently building mold within 80- 7500KG. there will more machines available in the year 2020

Jimmy Tang is the owner of this company, before create JW mold ,he had been working for 3 of Top 10 famous mold makers in south of China more than 12 years totally, most of the time worked in sales dept as Marketing or project Manager . Therefore Jimmy and his team have deep understanding in USA and European tool standards , as well as their concerns on Quality , leadtime ,price and Service .

## ■ End Customers



Full customer oriented, 12 Years No Change

### America



**SL Corporation**

Purchase Order  
**AFX MOLDING, L.L.C.**

### Asia

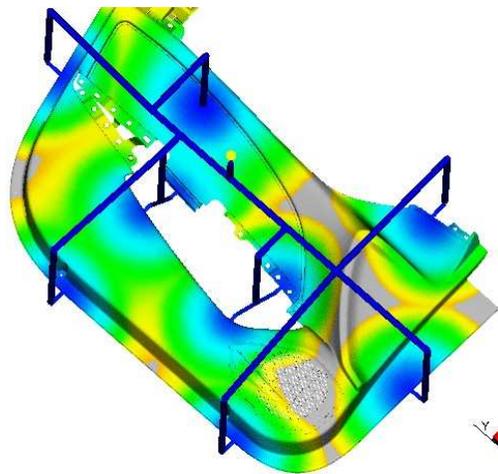


### Europe



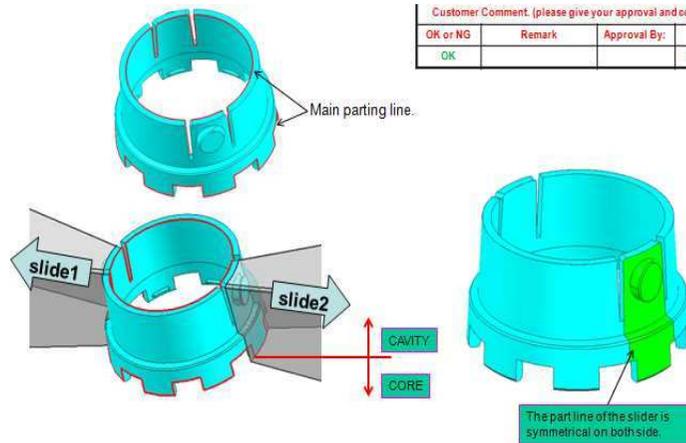
**SANHUA AWECO**

# CAD/CAM/ CAE Capability



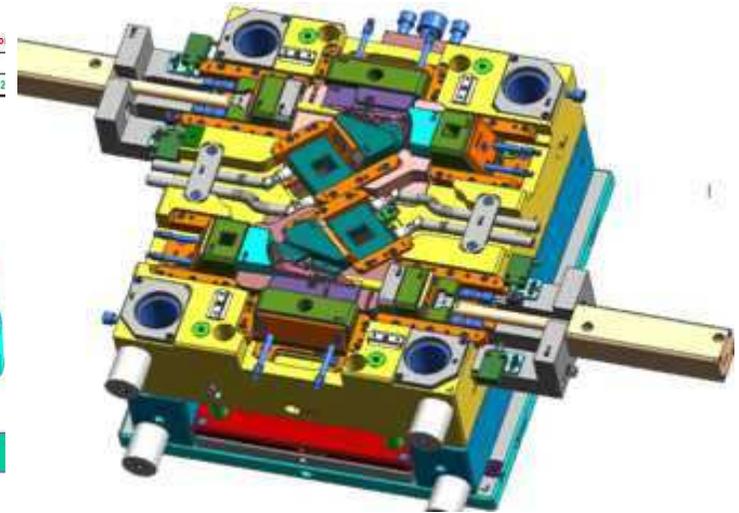
Mold Flow Analysis

Always within 1-2 days



DFM Report

Complete in 1-2 days



Mold Design

Finish in 0.5-1.5 weeks depends on complexity

Using UG NX7- NX10 for tool design and CNC programming. Autocad for create 2D drawings. Autodesk 2013 for mold flow simulation. The Customer,s data format can be in step, Catia, Pro-E,X-T, Igs ,Solidworks, No problem for JW to convert the file.

The Product Design and feasibility study will be performed by experienced designers, submit the report in PPT document With issues and proposals. Also provide modified 3D model with DFM together for approval. Afterwards the tool design will be complete in 3D format . The 2D assembly drawings is follow up after 3D design finalized



# Project Management



<DFM Report>  
<Mold flow Report>

<Design audit list>

<Weekly progress report>

<Process data sheet>  
<Tool issue Report>  
<measurement report>

Before tool shipment.  
<Mold check list>

Shipment  
<Out put check report>

Production  
<Process data sheet>  
<Packing instruction>  
<Quality instruction>  
<In process Check record>

Design for manufacture

Gate location and Tool layout

Customer Comment. (please

Moldflow Analysis Report

## Tool Specification

模号	产品名	尺
N19064	插头 Fixierungsnagel, 1001045_a	约20 23 1.8
N19062	高筒 Patronengeh. Bajonett L202, 1001040_b	约48 20 29

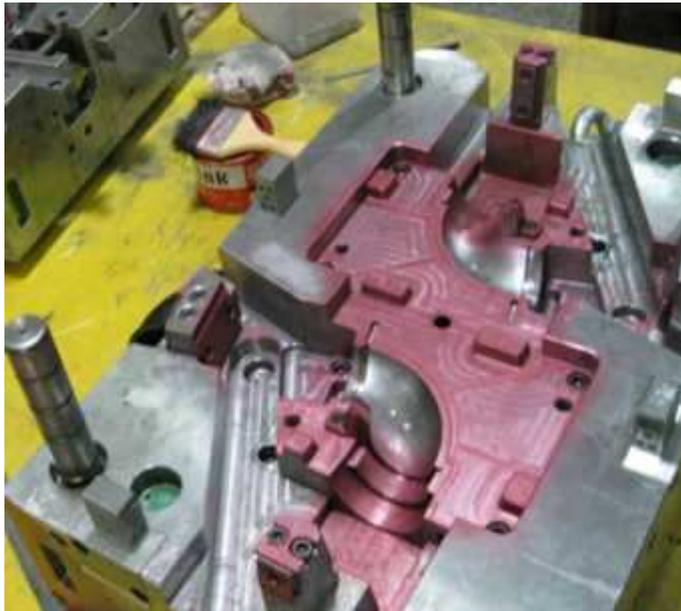
Year 2019	Progress report
Description ( Green grids are sundays or China public holidays)	试模起始时间:
Mold Design and customer approval	第几次试模 Trail No:
Hot runner system Purchase	Part Name零件名称
Mold Base & Steel	Part No.零件编号
Place order & Delivery for Moldbase	Resin塑胶原料
Place order & Delivery for Steel	Color颜色
Machining process	Cavity Number模穴数
Drill Waterline , thread hole	温度公差±15°C
Rough CNC Cut	Zone 1前段°C
	Zone 2二段°C
	Zone 3三段°C
	Zone 4四段°C
	Zone 5五段°C

## Mold trial Report 试模报告

JINWEI USER'S MANUAL for Mold No \_\_\_\_\_

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## Parts with Bend tube



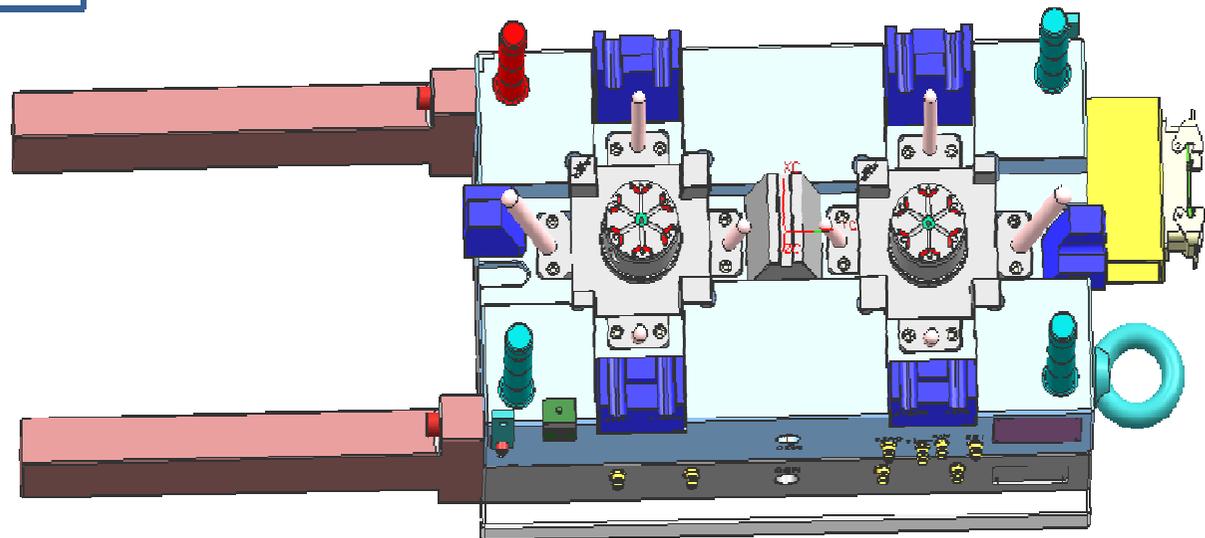
Mold for Bend Tube

1+1 cavs

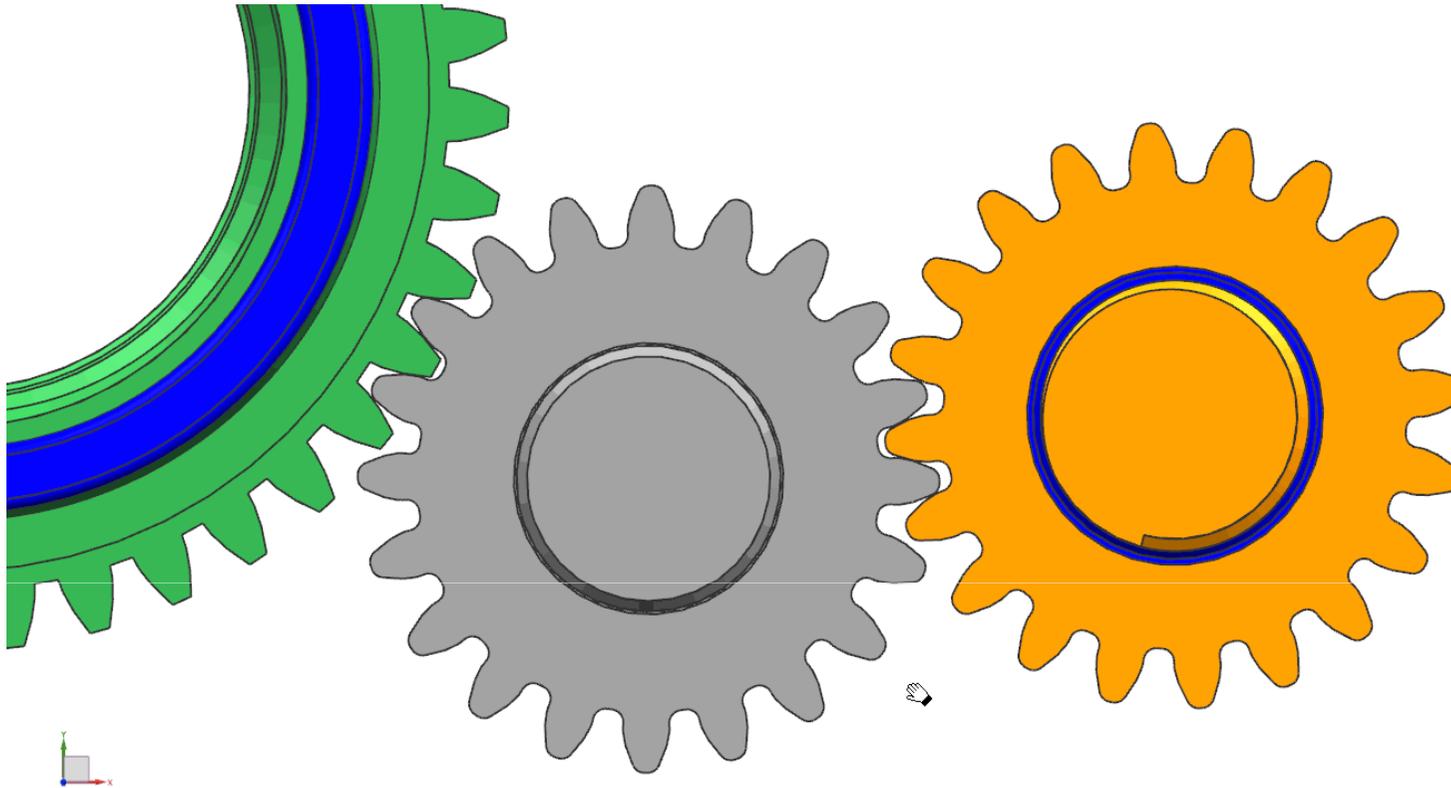
With 2 curved sliders for each cav



Made Interchangeable inserts here for with or without the "hoop" feature  
Part name : Pump Housing  
Material : PP GF30, full surrounded by sliders. Release the "tube" by Hyds which under 2 steps movement. Keep the part roundness is important and difficult. Built 2 similar tools in 2016 and 2018 separately  
Moulds size about 1700\*500\*650mm

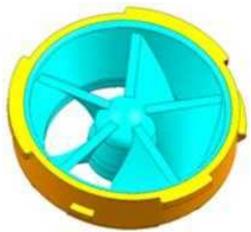


## Auto unscrewing & Turn core



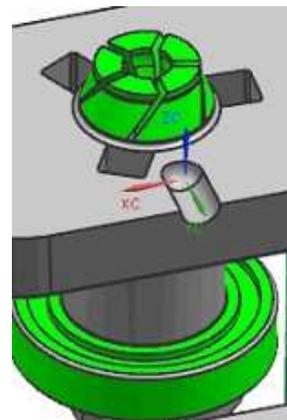
This picture for understand the unscrewing movements

Pls use full screen and press F5 for dynamic display



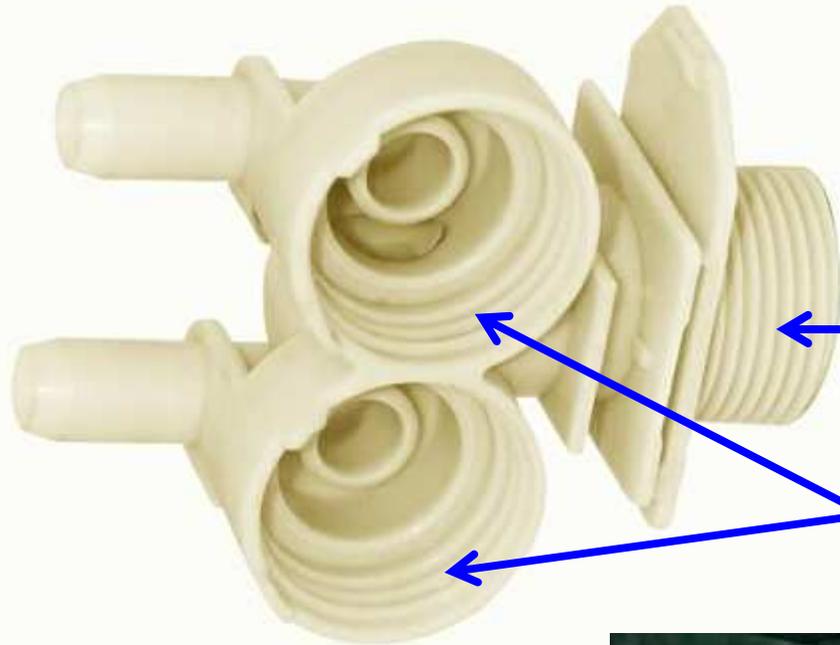
POM material ,  
20\*20\*6 mm

This part looks easy but in fact not . The blue areas are curved surfaces for flow guiding purpose . Not possible form by sliders ,lifters or any other traditional method



The only way is to make turn core system , pilot by hydraulic cylinder

## Auto unscrew



Description about the part and actions :

Part Name : Valve body

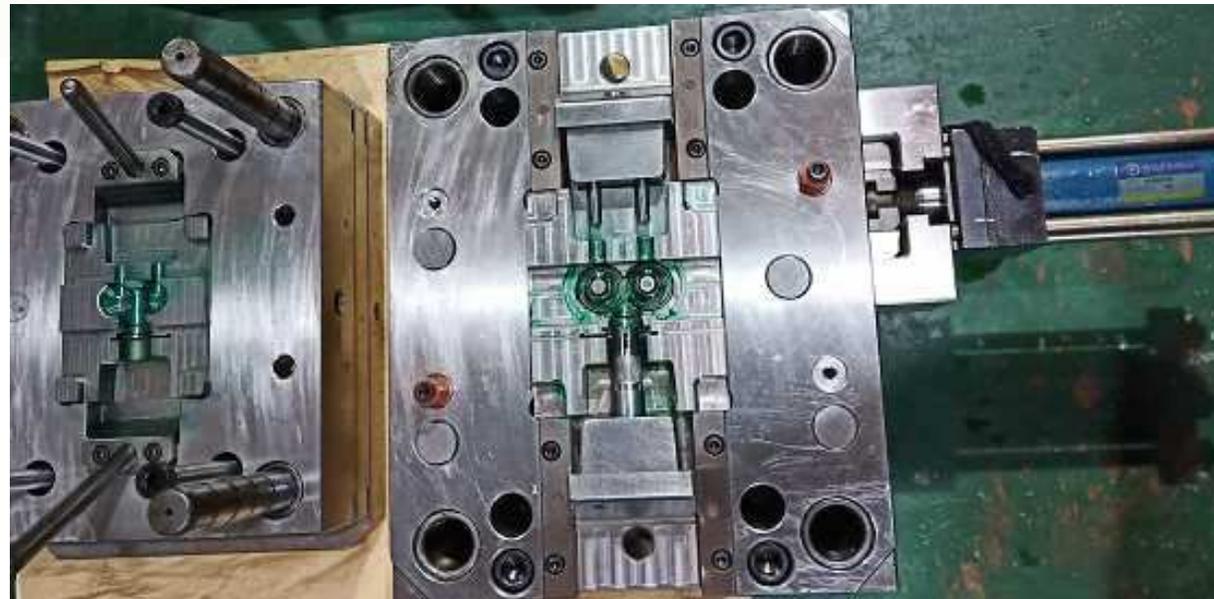
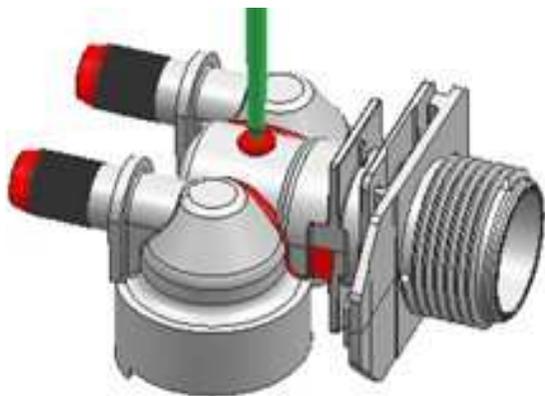
Overall dim : 80\*62\*40mm

Material : PA6 GF35

Center hot tip gate

The Outer thread was formed by cavity and core shut off

Demoulding these 2 inner threads automatically by Hydraulic driven gear rack system . They are so close to each other, must move exactly same speed . otherwise will block the unscrewing system and hurt the threads



## Auto unscrewing projects



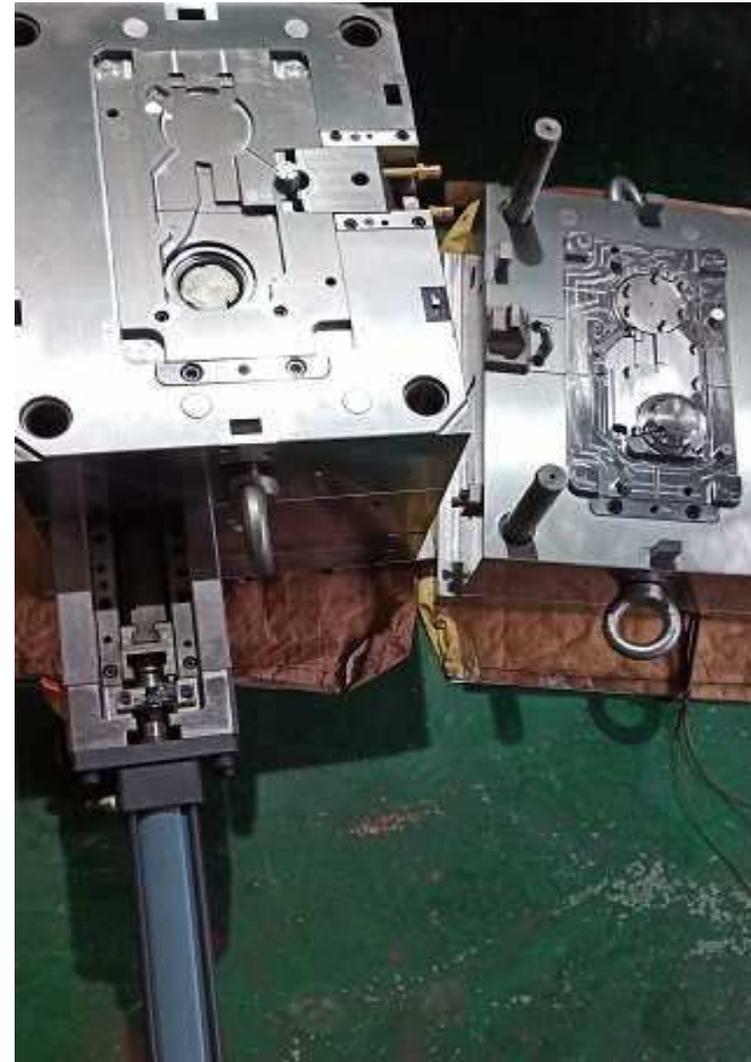
The difficulty of this part was only the dia 90 \*40 thread . Even it is in outside, but the root have other features thus can not formed by sliders, so make auto unscrew system is the only choice

Part Name : Cover

Size : 255\*135\*60 mm/79.6cm.cu

Material : PP

Gate : hot tip gate at part top center

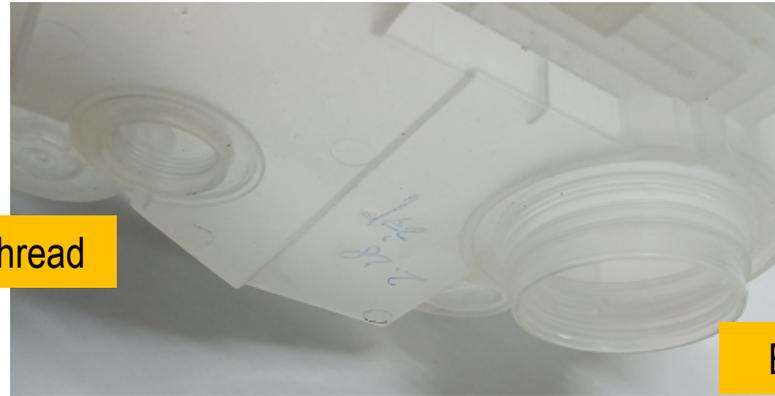


The mold Equipped with the Hydraulic driven gear rack system For auto unscrewing the thread





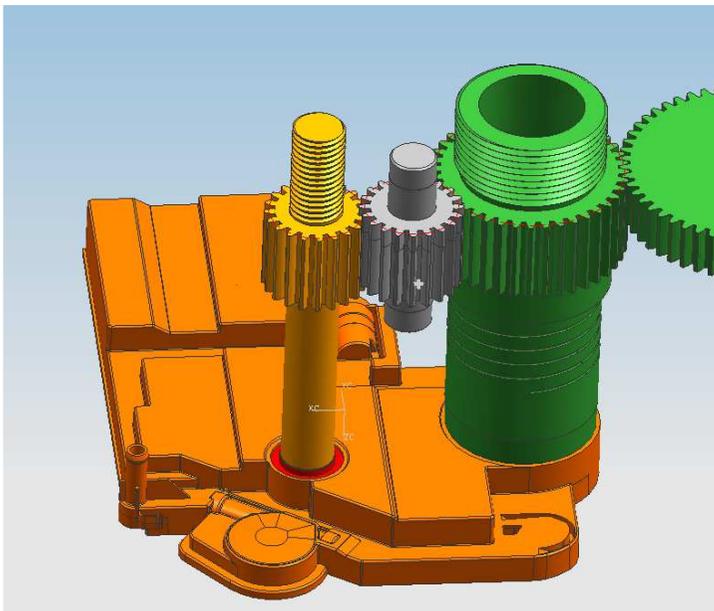
Part Name : Housing ,Size :330\*255\*50mm/248cm.cu,  
Gate : hot valve gate . Mold weight : 2200KGS



Small thread

Big thread

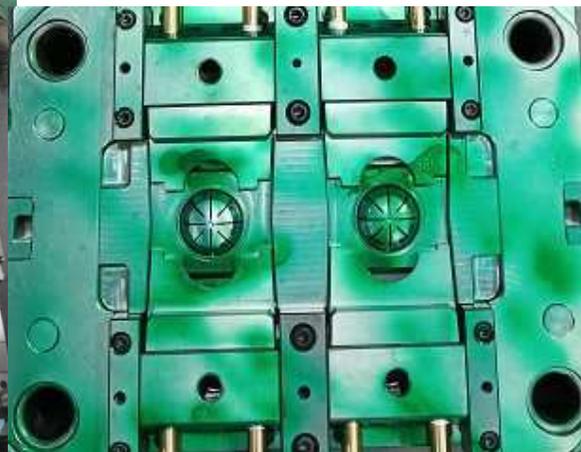
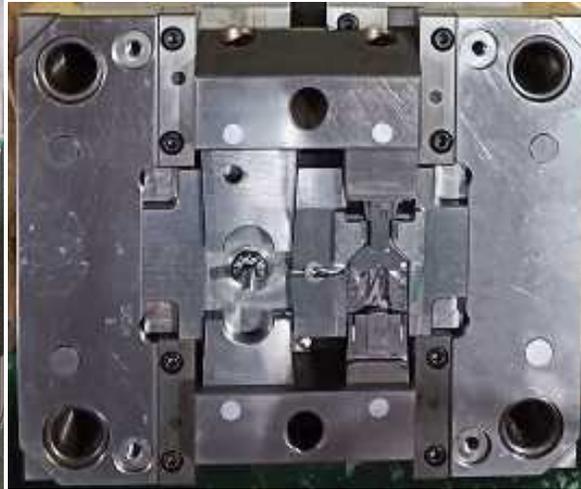
This part has 1 big thread And another small thread need To release by auto unscrewing system .

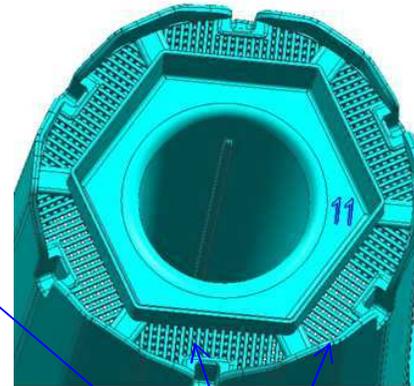
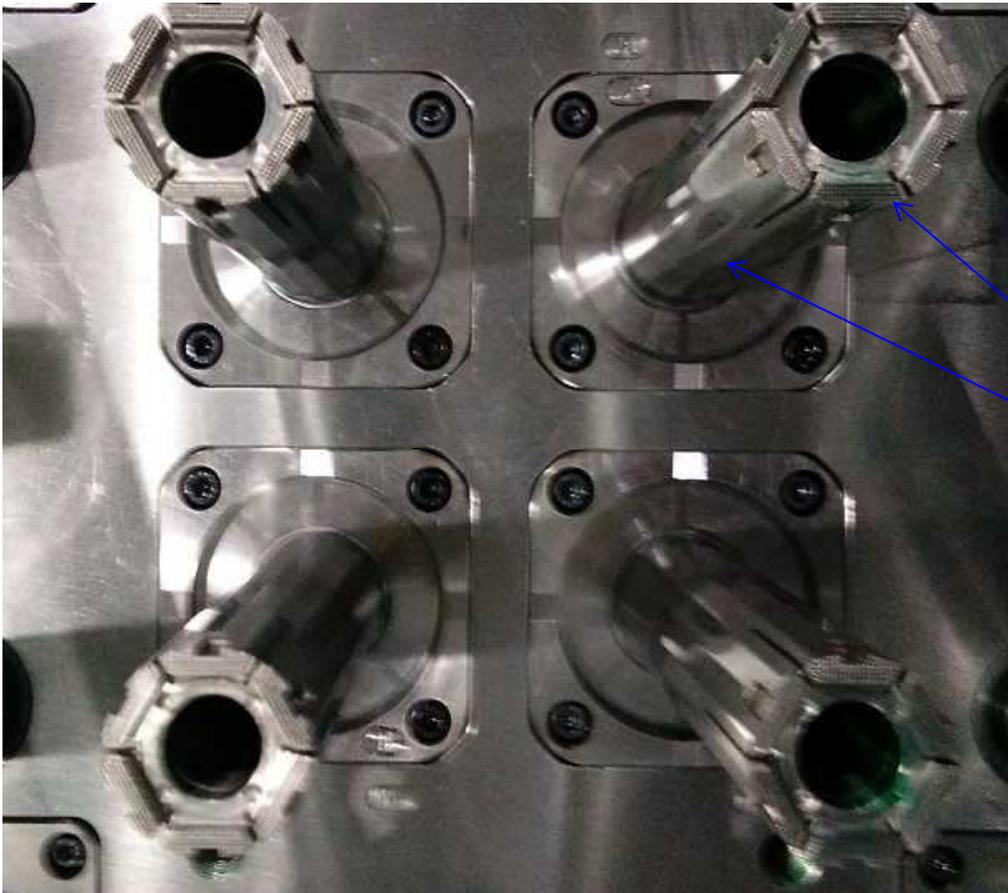


The big thread about dia 85 while the small one is about dia 40 So define the twisting force ,torque distance to correct value is important .Otherwise will be easy get blocked due to the unbalanced movement



*Other Plastic molds Made in JW*

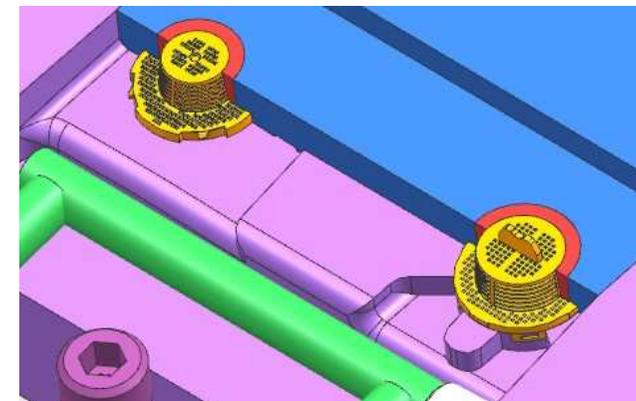




Must ensure all these 0.4mm wide grids are uniform , no corner broken or flashes ,otherwise the water can not go through evenly. The wall thickness of main body is 0.8mm+/- 0.05mm in 160mm high, need keep The thickness and quality stable in the production of millions part

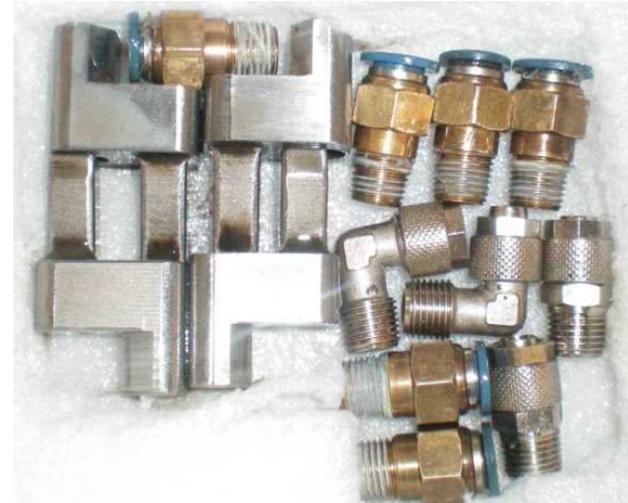


Although this part is as small as about Dia 25\*15mm, the it has 0.3mm small grid all around to let water to pass through evenly. Each cav require 2 sliders which must have good machining accuracy and fitting , any flashes or mismatch on those grids are not allowed



## Mold inserts and Components

Once the mold running in customer,s factory got damaged ,then need replace the related inserts or components for able to continue the production. Sometimes even not damaged ,but change some local inserts can get mold life much longer .We can support at anytime to make mold inserts or spare parts urgently and then send out by air express. Also based our complete supply chain , the purchased parts for instance the components for Hydraulic cylinders or hot runner system is also easy to obtained in our here and send obroad quickly than anywhere else



## Global Services

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*Customers sometimes concerning about the maintenance of molds after delivery to their country. On first JW will fully consider the easy ways of maintenance and replacement during the design stage ,later make the quality of the mold reliable , provide maintenance Guidance , and some spare components at the time of delivery or send by air express for those easily damaged parts .*

*about hot runner system, the suppliers such as YUDO ,Mastip etc already set service network worldwide . if any issues , can be directly reach them by call the number on the sign plate of the mold.*

*We are currently working on the development of Europe and North America local mould maintenance partner, after fixed will inform you. JW mold also can send the mold technicians to do such work overseas*

■ The end

<http://www.jwindustry.com>



# Thank You !

*Any concerns pls feel free send email to the  
Owner of JW Mold at:*

*[jimmy@jwindustry.com](mailto:jimmy@jwindustry.com)*